

# **SYSTEM AND METHOD FOR REMOTELY DETECTING AND LOCATING FAULTS IN A POWER SYSTEM**

## **ABSTRACT OF THE DISCLOSURE**

5           A system and method are provided for remotely detecting and locating faults in a power system. The system includes at least one slave controller and at least one supplemental protection module. The slave controller is disposed proximate at least one load and electrically connected to the loads via at least one conductor. More particularly, the slave controller includes at least one solid-state switch capable of  
10   controllably altering the input current to the loads. The slave controller also includes at least one measuring element for measuring at least one parameter associated with the loads and the solid-state switches. The solid-state switch can then controllably alter the input current to the loads according to the parameter. The supplemental protection modules are electrically connected to the conductors between the slave  
15   controller and the loads. In this regard, the supplemental protection modules can detects at least one fault in at least one conductor.

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